-28 JAN 2005

## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference	FOR FURTHER ACTION See Form PCT/IPEA/416								
SPSNC19847		In: it is a second							
International application No.	International filing date (day/month/year)	Priority date (day/month/year)							
PCT/FI 2003/000667	13.08.2002								
International Patent Classification (IPC) or national classification and IPC									
H04L 27/26, H04L 1/00									
Applicant									
Nokia Corporation et al									
This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.									
2. This REPORT consists of a total o	f 3 sheets, including this cov	er shæt.							
<ol> <li>This report is also accompanied by</li> </ol>									
a (sent to the applicant and to the International Bureau) a total of sheets, as follows:  sheets of the description, claims and/or drawings which have been amended and are the basis of this report									
		authority (see Rule 70.16 and Section 607 of the							
Administrative									
		ority considers contain an amendment that goes ed, as indicated in item 4 of Box No. I and the							
Supplemental									
b. (sent to the Internation	nal Bureau only) a total of (indicate type and	number of electronic carrier(s))							
		g and/or tables related thereto, in computer							
readable form only, as Administrative Instruc		to Sequence Listing (see Section 802 of the							
<ol> <li>This report contains indications rel Box No. I Basis of</li> </ol>	the report								
	die report								
Box No. II Priority									
	ablishment of opinion with regard to novelty	, inventive step and industrial applicability							
	unity of invention								
	Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability, citations and explanations supporting such statement								
Box No. VI Certain of	locuments cited								
Box No. VII Certain o	defects in the international application								
Box No. VIII Certain o	Box No. VIII Certain observations on the international application								
Date of submission of the demand	Date of completio	n of this report							
Date of submission of the demand	Date of completio	i of this report							
26.01.2004	05.07.200								
		Authorized officer							
Name and mailing address of the IPEA/SE Patent- och registreringsverket	Aumonzed officer	ļ							
Box 5055	man davide n	lamerriat/mi							
S-102 42 STOCKHOLM  Facsimile No. +46 8 667 72 88		Fredrik Blomqvist/mj Telephone No. +46 8 782 25 00							



Interior application No.
PCT/FI 2003/000667

Bo	x No. I	Ba	nsis of the report			
1.			o the language, this report is based on the international application in the language cated under this item.	age in which it was filed, unless		
	This report is based on a translation from the original language into the following language which is the language of a translation furnished for the purposes of:					
			international search (under Rules 12.3 and 23.1(b))			
		П	publication of the international application (under Rule 12.4)			
			international preliminary examination (under Rules 55.2 and/or 55.3)			
2.	furnis	hed to th	o the <b>elements</b> of the international application, this report is based on <i>(replace receiving Office in response to an invitation under Article 14 are referred to in nexed to this report):</i>	cement sheets which have been this report as "originally filed"		
	$\boxtimes$	the inte	ernational application as originally filed/furnished			
		the des	scription:			
		pages		as originally filed/furnished		
		pages*		<del>,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,</del>		
		pages*	received by this Authority on			
		the clai	ims:			
		pages		as originally filed/furnished		
		pages*		my statement) under Article 19		
		pages*				
		pages*	received by this Authority on			
		the dra	wings:			
		pages		as originally filed/furnished		
		pages*				
		pages*				
		a seque	nce listing and/or any related table(s) - see Supplemental Box Relating to Sequence	e Listing.		
3.		The am	endments have resulted in the cancellation of:			
			the description, pages			
			the claims, Nos.			
			the drawings, sheets/figs	<del>.</del>		
		$\sqcap$	the sequence listing (specify):	<del></del>		
		一	any table(s) related to the sequence listing (specify):			
			<u></u>	<del></del>		
4.		This remade, s	port has been established as if (some of) the amendments annexed to this report since they have been considered to go beyond the disclosure as filed, as indicated ).	and listed below had not been in the Supplemental Box (Rule		
			the description, pages			
		一	the claims, Nos.			
		一	the drawings, sheets/figs			
		一				
		님	the sequence listing (specify):			
		لـــا	any table(s) related to the sequence listing (specify):			
*	If item	4 applie	s, some or all of those sheets may be marked "superseded."			

## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

Interconal application No.
PCT/FI 2003/000667

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicabil citations and explanations supporting such statement				
1. Statement	t			
Novelty (N)		Claims	1-27	YES
		Claims		NO
Inven	Inventive step (IS)		1-27	YES
	Claims	***	NO	
Indust	trial applicability (IA)	Claims	1-27	YES
		Claims		NO
	an manage A			

## 2. Citations and explanations (Rule 70.7)

Documents cited in the International Search Report:

D1: EP 1 124 344 A1

D2: Horvath, L et al" A novel, high speed, reconfigurable demapper-symbol deinterleaver architecture for DVB-T" In: Proceedings of the 1999 IEEE international symposium on circuits and systems, Vol.4, pages 382-385, 1999 Orlando, USA. D3: US6151296 A

The cited documents represent the general state of the art. The invention defined in claims 1-27 is not disclosed by any of these documents.

The cited prior art does not give any indication that would lead a person skilled in the art to the claimed method, system and apparatus for symbol interleaving. Therefore, the claimed invention is not obvious to a person skilled in the art.

Accordingly, the invention defined in claims 1-27 is novel and is considered to involve an inventive step. The invention is industrially applicable.